

## Weekly COVID-19 Update in Montana (as of 1/21/2022)

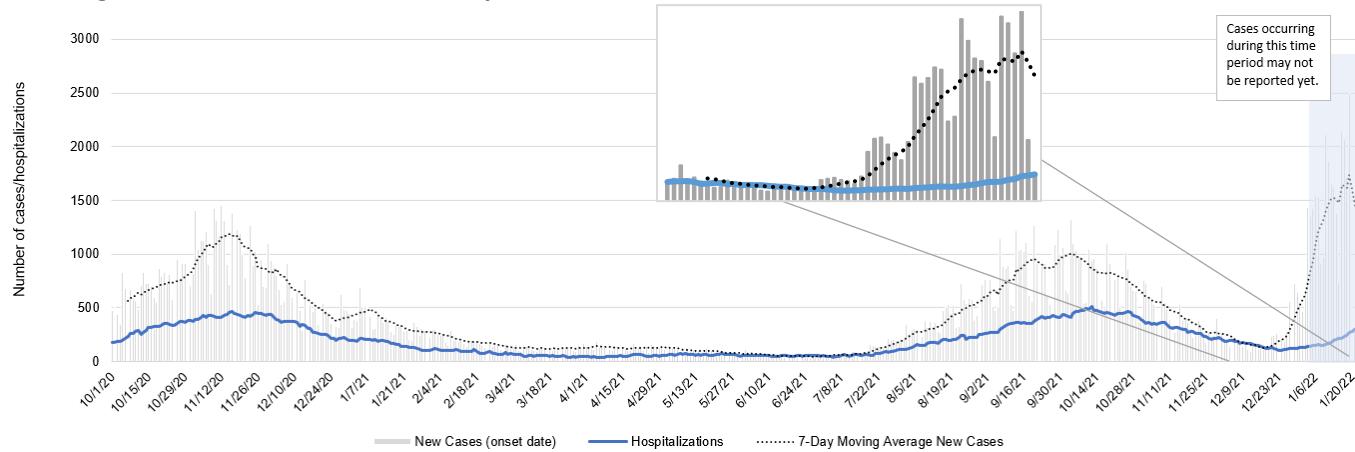
This report is a weekly snapshot of COVID-19 activity in Montana. Data are analyzed based on information available as of January 21, 2022. Data are provisional and expected to change as more information is received.

### Case Data

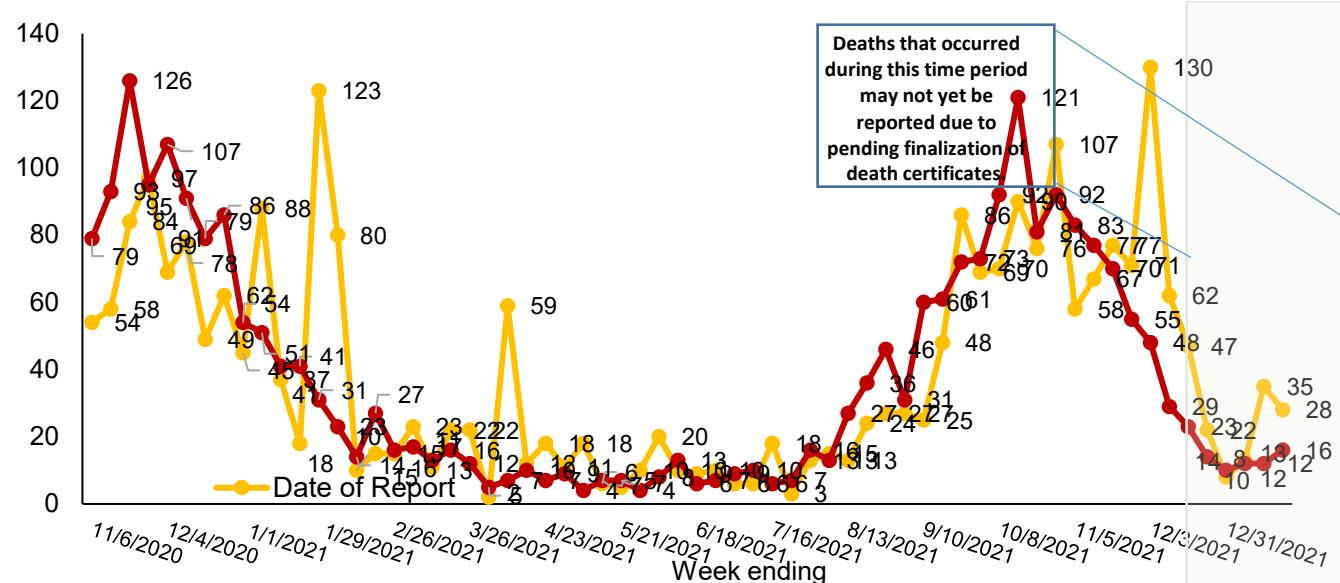
**Table 1. Summary of COVID-19 Activity – Montana, as of 1/21/2022**

	TOTAL	RECENT WEEK	PERCENT CHANGE FROM PREVIOUS WEEK
REPORTED CASES	<b>224,963</b>	<b>11,349</b>	<b>+19%</b>
LABORATORY TESTS	<b>2,442,060</b>	<b>62,331</b>	<b>+11%</b>
HOSPITALIZATIONS	<b>10,795</b>	<b>251</b>	<b>+43%</b>
DEATHS	<b>2,984</b>	<b>28</b>	<b>-20%</b>

**Figure 1. COVID-19 Cases and Hospitalizations over Time - Montana, as of 1/21/2022**



**Figure 2. COVID-19 Deaths by Report Date and Date of Death – Montana, 11/1/2020 – 1/21/2022**





## Vaccine Data

Montana began vaccinating individuals in mid-December 2020 with a phased process: Phase 1A on December 14, 2020, Phase 1B on January 19, 2021, and Phase 1B+ on March 8, 2021. Vaccinations were opened to all Montanans age 16+ on April 1, 2021 and expanded to all Montanans age 12+ on May 10<sup>th</sup>, 2021. Most recently, the Pfizer vaccine was approved for the 5-11 year old age group on October 29<sup>th</sup>, 2021. To date, 1,368,398 doses have been given across the state and 54% of the eligible population is considered fully vaccinated (table 3).

**Table 2: COVID-19 Vaccine Doses Administered for the 12 and older population – Montana, as of 1/21/2022**

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 1/7	WEEK ENDING 1/14	WEEK ENDING 1/21
TOTAL DOSES ADMINISTERED	<b>1,336,883</b>		10,568	9,667	<b>6,432</b>
DOSE 1 ADMINISTERED	<b>600,479</b>	<b>65%</b>	1,733	1,808	<b>1,186</b>
FULLY VACCINATED INDIVIDUALS	<b>533,274</b>	<b>57%</b>	1,289	1,103	<b>844</b>

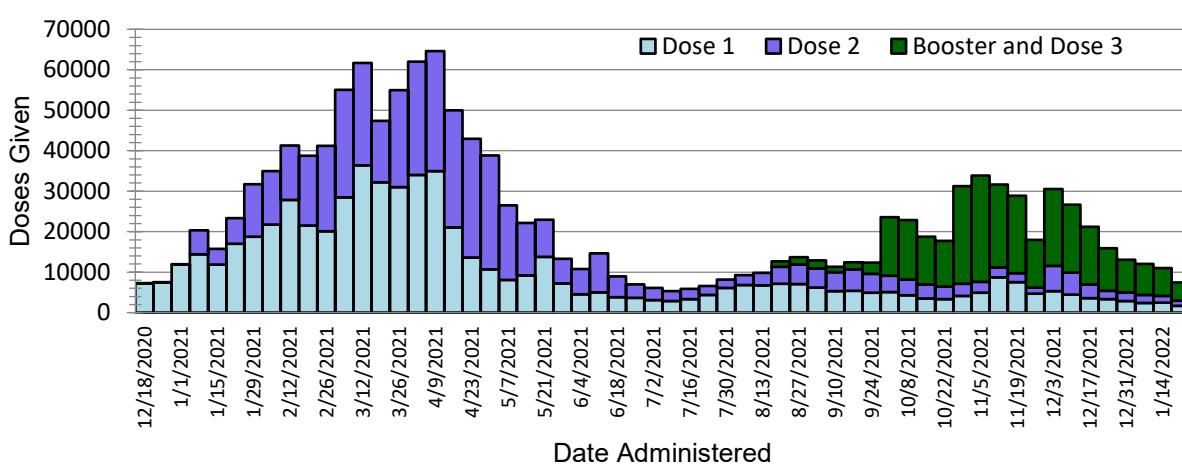
\*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

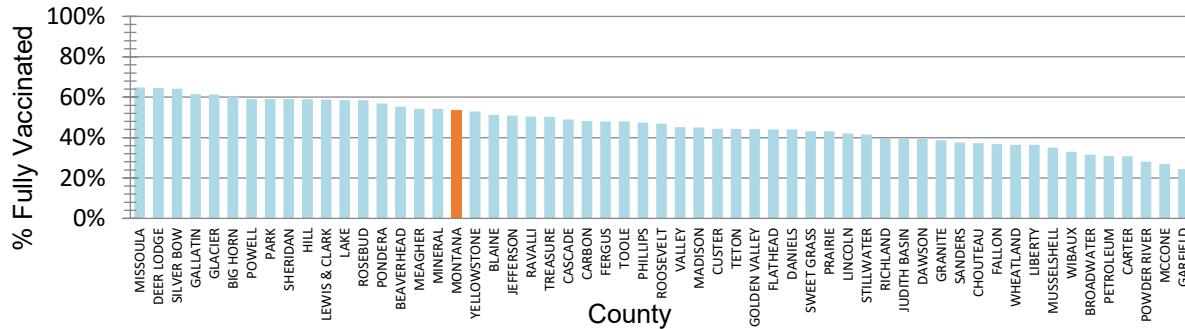
**Table 3: COVID-19 Vaccine Doses Administered for the 5 and older population – Montana, as of 1/21/2022**

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 1/7	WEEK ENDING 1/14	WEEK ENDING 1/21
TOTAL DOSES ADMINISTERED	<b>1,368,398</b>		12,048	10,976	<b>7,430</b>
DOSE 1 ADMINISTERED	<b>618,734</b>	<b>61%</b>	2,406	2,458	<b>1,656</b>
FULLY VACCINATED INDIVIDUALS	<b>546,525</b>	<b>54%</b>	2,096	1,762	<b>1,371</b>

\*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

**Figure 3. COVID-19 Vaccine Doses Administered by Week, 5+ Years – Montana, as of 1/21/2022**

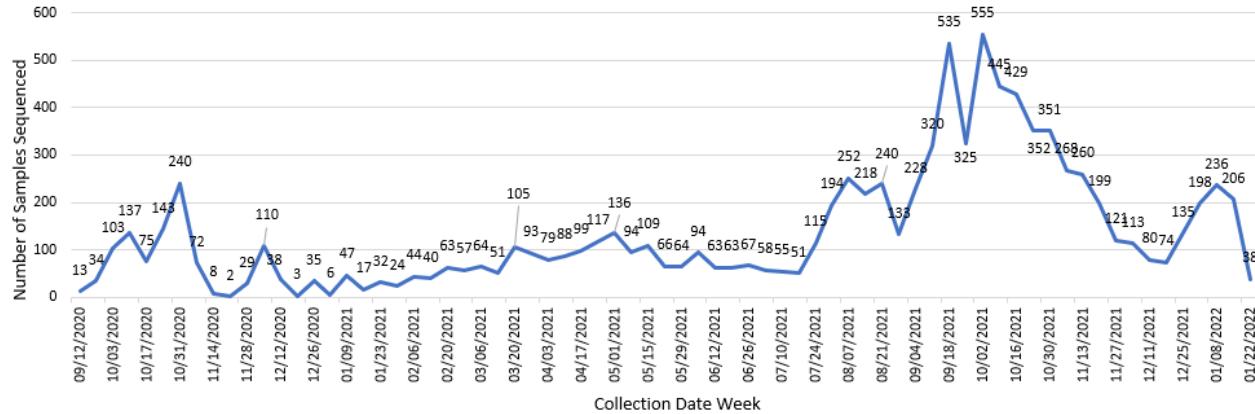
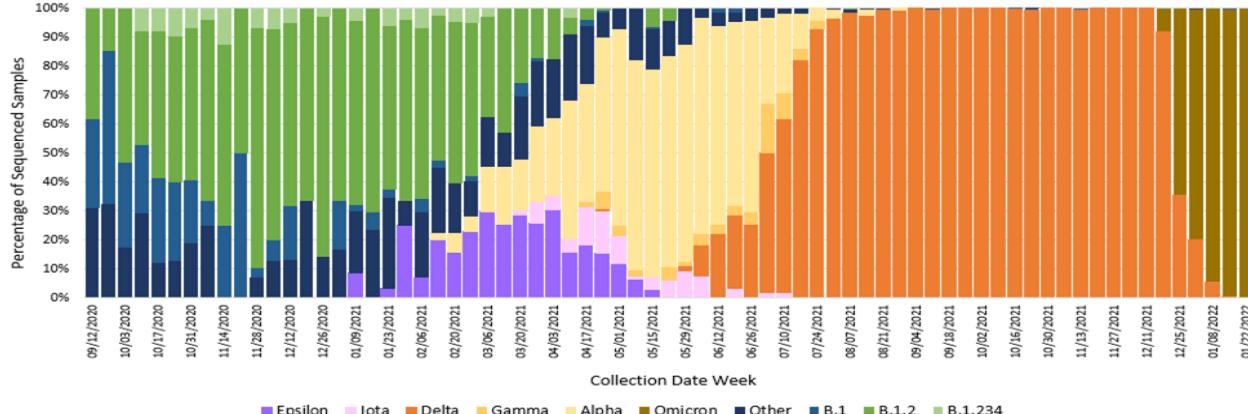


**Figure 4. Percent of Eligible Montanans (5+ years) Fully Vaccinated by County – Montana, 1/21/2022**


### Variant and Breakthrough Cases

Figure 6 displays the percentage of the most common SARS-CoV-2 lineages detected each week, of all Montana samples sequenced that were collected that week. There were 9,608 samples from Montana that were sequenced and their lineages were reported to GISAID since September 2020; figure 5 displays the number of specimens sequenced by week.

**As of January 25, there have been 715 cases in Montana infected with the Omicron variant,** detected in most of Montana's local and tribal health jurisdictions. Last week, 38/38 (100%) specimens that were collected and sequenced were Omicron. So far in the month of January, 622/678 (92%) specimens that were collected and sequenced were Omicron, one was B.1, and the remainder were Delta. Omicron is the dominant circulating strain in the state, and is displayed in brown on the chart below.

**Figure 5. Number of COVID-19 samples sequenced by collection date, Montana 1/25/2022 [n=9,608]**

**Figure 6. Percent of COVID-19 variants in sequenced samples by collection date, Montana 1/25/2022**




A breakthrough COVID-19 infection is defined as a positive SARS-CoV-2 specimen collected  $\geq 14$  days after completing the primary COVID-19 vaccine series of an FDA-authorized COVID-19 vaccine. Studies show that protection from COVID vaccination decreases over time; in response, the CDC has recommended booster doses for eligible populations to protect against waning immunity. As of 1/21/2022, Montana reports 27,425 cases of confirmed breakthrough disease, which includes 1,068 hospitalizations and 303 deaths. CDC data from November show that unvaccinated adults were more than 4 times more likely to become infected with COVID, compared to fully vaccinated adults. However, when booster doses were considered, unvaccinated adults were more than 13 times more likely to become infected compared to fully vaccinated adults with booster doses.<sup>1</sup>

### Hospitalizations and Deaths and Vaccination Status

COVID-19-related hospitalizations and deaths were analyzed between **April 1, 2021 and January 21, 2022** to review vaccination status. Since the beginning of April 2021, 82% of Montanans who were hospitalized and 78% of those who died were unvaccinated at the time of infection (Table 4). Of the 5,949 individuals who were hospitalized during this time period, 100 (2%) were  $<18$  years old, 851 (14%) were 18 to 44 years old, 2,019 (34%) were 45 to 64 years old and 2,979 (50%) were  $\geq 65$  years old.

Additionally, COVID-19-related hospitalization and death data from **November 27, 2021 – January 21, 2022** (last 8 weeks) were analyzed to review vaccination status. Seventy-six percent of Montanans who were hospitalized and 80% of those who died had not received a COVID-19 vaccine (Table 5). Of the 764 individuals who were hospitalized during this time period, 15 (2%) were  $<18$  years old, 86 (11%) were 18 to 44 years old, 224 (29%) were 45 to 64 years old and 439 (57%) were  $\geq 65$  years old.

**Table 4. Vaccination status of COVID-19 hospitalizations and deaths – April 1 to January 21, 2022**

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	<b>5,949</b>	<b>1388</b>
UNVACCINATED	4,902 (82%)	1086 (78%)
VACCINATED (BREAKTHROUGH CASE)	1,047 (18%)	302 (22%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>&lt;1-102 (62)</b>	<b>23-103 (71)</b>
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>16-101 (74)</b>	<b>20-101 (81)</b>

**Table 5. Vaccination status of COVID-19 hospitalizations and deaths – November 27 to January 21, 2022**

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	<b>764</b>	<b>106</b>
UNVACCINATED	579 (76%)	85 (80%)
VACCINATED (BREAKTHROUGH CASE)	185 (24%)	21 (20%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>&lt;1-101 (65)</b>	<b>37-101 (72)</b>
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<b>23-98 (72)</b>	<b>62-101 (79)</b>

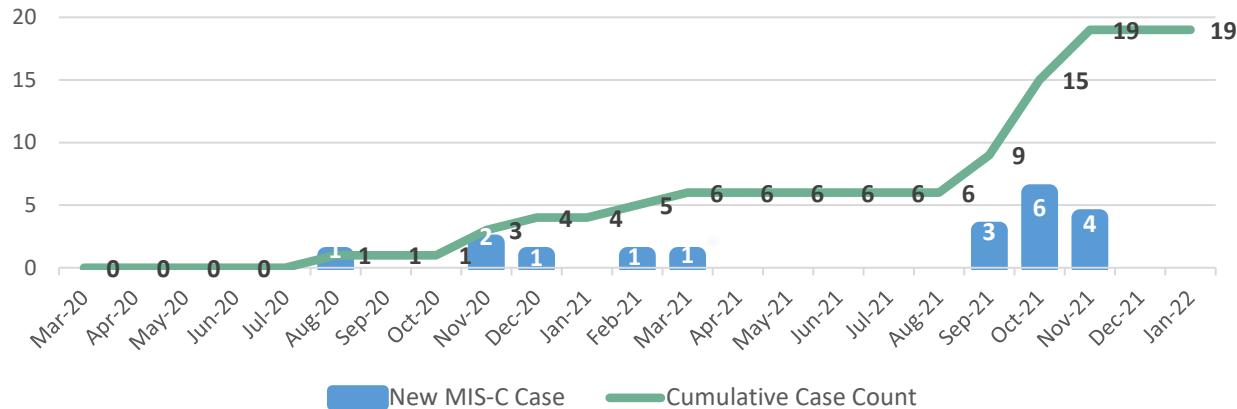
<sup>1</sup> CDC – COVID Data Tracker – Rates of COVID-19 Cases and Deaths by Vaccination Status. <https://covid.cdc.gov/covid-data-tracker/#rates-by-vaccine-status>. January 25, 2022.



## Multisystem Inflammatory Syndrome in Children (MIS-C)

As of January 21, 2022, Montana has a total of 19 reported cases of multisystem inflammatory syndrome in children, or MIS-C. There have been no deaths. Ages range from less than 1 year to 20 years old; median is 8 years. Nine cases were female, 10 were male. Cases are from 13 counties around Montana. The first case of MIS-C was reported in August 2020; 13 of the 19 cases have been reported since September 2021 (Figure 7).

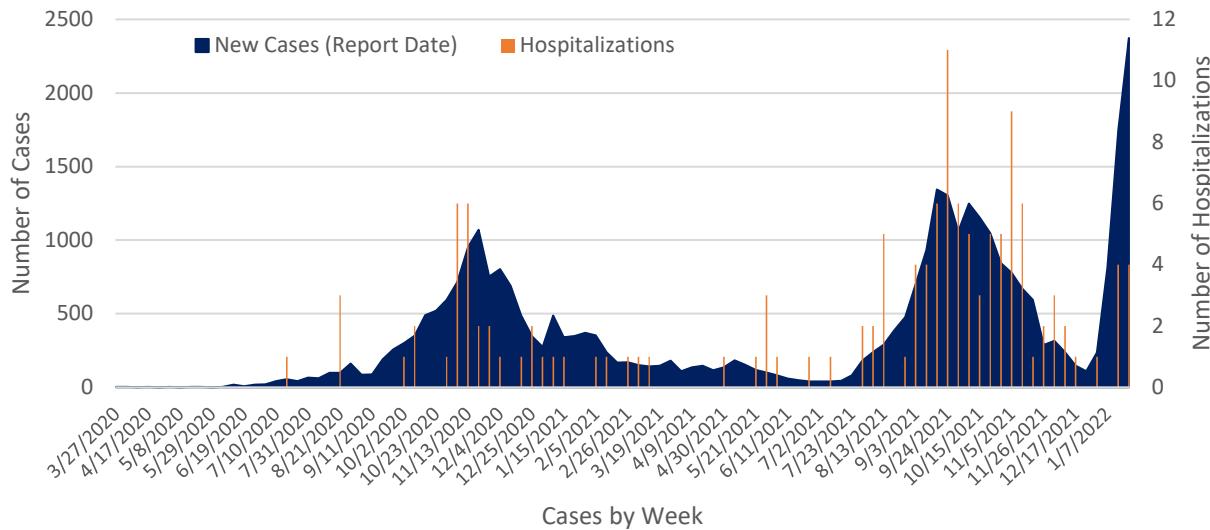
**Figure 7. Montana MIS-C Cases by Month, March 2020 – January 2022**



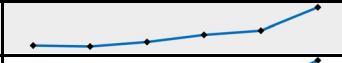
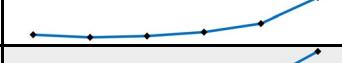
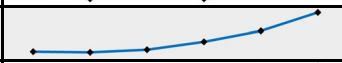
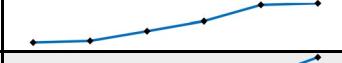
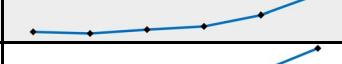
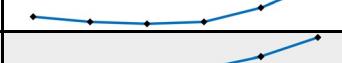
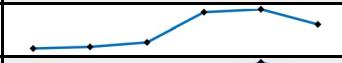
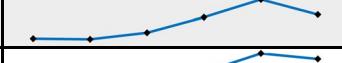
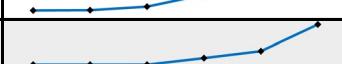
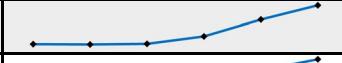
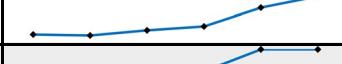
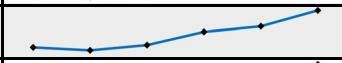
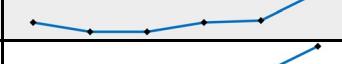
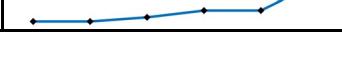
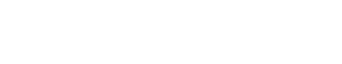
## Cases and Hospitalizations Associated with COVID-19 Among Children

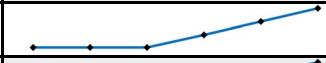
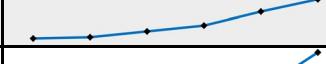
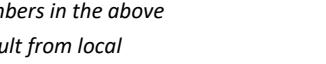
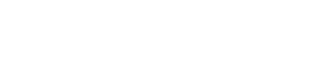
To date, there have been 33,919 children <18 years old in Montana diagnosed with COVID-19. Of those, 132 (<1%) have been hospitalized. Case rates among children follow a similar pattern to COVID-19 cases among all age groups (see Figure 1 for comparison) and have increased sharply during the recent Omicron surge (Figure 8). There were 2,374 cases of COVID-19 in children reported during the third week of January 2022, which is the highest number of cases reported in children in one week since the beginning of the pandemic and is an 87% increase in cases among that age group compared to the previous week. Four hospitalizations in children were reported that week.

**Figure 8. COVID-19 Cases and Hospitalizations by Month, March 2020 – January 2022, Among Children <18**



## Reported COVID-19 Cases by County with Trendline – Montana, past 6 weeks

County	17-Dec	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	change from previous week*	Trendline
Beaverhead	4	1	15	38	52	126	74	
Big Horn	11	1	6	21	53	152	99	
Blaine	8	0	3	17	23	99	76	
Broadwater	11	7	5	17	26	41	15	
Carbon	16	4	19	43	85	60	-25	
Carter	1	0	9	0	1	1	0	
Cascade	90	74	127	302	542	949	407	
Chouteau	2	3	9	15	25	26	1	
Custer	9	4	17	28	67	139	72	
Daniels	4	1	0	1	9	22	13	
Dawson	16	17	23	29	48	78	30	
Deer Lodge	5	5	18	38	96	164	68	
Fallon	5	6	0	9	2	39	37	
Fergus	9	11	17	56	60	40	-20	
Flathead	122	112	216	469	756	509	-247	
Gallatin	162	255	593	1472	2647	2295	-352	
Garfield	0	0	9	4	19	7	-12	
Glacier	6	7	18	56	85	130	45	
Golden Valley	0	0	0	1	2	6	4	
Granite	0	0	1	22	19	30	11	
Hill	8	7	9	39	107	165	58	
Jefferson	8	5	21	32	90	124	34	
Judith Basin	1	0	1	5	11	11	0	
Lake	35	21	41	92	147	255	108	
Lewis and Clark	57	86	149	432	498	664	166	
Liberty	1	0	1	7	33	18	-15	
Lincoln	27	15	38	94	118	187	69	
Madison	13	8	15	44	67	85	18	
McCone	5	0	0	5	6	21	15	
Meagher	1	1	4	9	9	30	21	

County	17-Dec	24-Dec	31-Dec	7-Jan	14-Jan	21-Jan	change from previous week*	Trendline
<b>Mineral</b>	3	2	5	14	45	88	43	
<b>Missoula</b>	102	151	426	914	1165	1373	208	
<b>Musselshell</b>	5	2	2	19	19	22	3	
<b>Park</b>	26	13	54	60	95	351	256	
<b>Petroleum</b>	0	1	0	1	0	1	1	
<b>Phillips</b>	2	0	2	13	15	45	30	
<b>Pondera</b>	8	9	6	14	32	57	25	
<b>Powder River</b>	1	1	0	2	3	4	1	
<b>Powell</b>	2	5	11	17	53	96	43	
<b>Prairie</b>	4	2	1	9	12	16	4	
<b>Ravalli</b>	14	14	54	156	185	306	121	
<b>Richland</b>	21	23	36	65	66	26	-40	
<b>Roosevelt</b>	12	8	5	8	72	116	44	
<b>Rosebud</b>	3	3	3	16	30	44	14	
<b>Sanders</b>	15	18	34	50	88	122	34	
<b>Sheridan</b>	1	1	1	4	3	32	29	
<b>Silver Bow</b>	38	13	45	126	291	433	142	
<b>Stillwater</b>	0	1	3	5	34	69	35	
<b>Sweet Grass</b>	1	4	9	13	31	37	6	
<b>Teton</b>	12	6	15	33	74	75	1	
<b>Toole</b>	2	2	12	13	24	35	11	
<b>Treasure</b>	0	0	0	0	1	2	1	
<b>Valley</b>	10	1	5	29	19	46	27	
<b>Wheatland</b>	0	4	0	2	2	15	13	
<b>Wibaux</b>	0	0	1	0	5	7	2	
<b>Yellowstone</b>	139	136	319	765	1504	1455	-49	
<b>MONTANA</b>	<b>1058</b>	<b>1071</b>	<b>2433</b>	<b>5745</b>	<b>9571</b>	<b>11349</b>	<b>1778</b>	

\*Note: Data are based on the date of report into the Montana Infectious Disease Information System (MIDIS). Underlined numbers in the above table reflect adjusted counts and may include cases diagnosed but not reported in earlier time frames. These adjustments result from local and state data reconciliation efforts, conducted to ensure accurate data.

County name	Eligible population 5+	Dose 1	Dose 2	Dose 3	Fully Immunized	Total Doses Administered	Percent eligible with first dose (5+)	Percent Fully Vaccinated (5+)
BEAVERHEAD	9,091	5,407	4,339	2,414	5,034	12,160	59%	55%
BIG HORN	11,975	8,044	6,833	2,463	7,202	17,340	67%	60%
BLAINE	6,044	3,603	2,893	1,334	3,098	7,830	60%	51%
BROADWATER	6,092	2,272	1,688	881	1,922	4,841	37%	32%
CARBON	10,476	5,492	4,710	2,509	5,053	12,711	52%	48%
CARTER	1,141	368	329	167	351	864	32%	31%
CASCADE	76,124	41,935	33,313	15,826	37,265	91,074	55%	49%
CHOUTEAU	5,430	2,188	1,834	1,221	2,019	5,243	40%	37%
CUSTER	10,692	5,268	4,233	2,173	4,737	11,674	49%	44%
DANIELS	1,559	733	632	324	686	1,689	47%	44%
DAWSON	8,071	3,460	2,860	1,391	3,167	7,711	43%	39%
DEER LODGE	8,887	6,252	5,165	3,013	5,733	14,430	70%	65%
FALLON	2,646	1,056	925	427	972	2,408	40%	37%
FERGUS	10,495	5,406	4,654	2,540	5,046	12,600	52%	48%
FLATHEAD	99,993	51,072	39,816	20,261	44,038	111,149	51%	44%
GALLATIN	110,900	81,111	62,088	29,640	68,167	172,839	73%	61%
GARFIELD	1,188	317	248	100	290	665	27%	24%
GLACIER	12,447	10,331	7,084	2,905	7,641	20,320	83%	61%
GOLDEN VALLEY	788	378	316	148	348	842	48%	44%
GRANITE	3,218	1,430	1,135	555	1,243	3,120	44%	39%
HILL	14,914	9,694	7,429	3,656	8,792	20,779	65%	59%
JEFFERSON	11,819	6,635	5,612	3,016	6,018	15,263	56%	51%
JUDITH BASIN	1,880	789	684	370	746	1,843	42%	40%
LAKE	29,280	19,495	15,949	8,015	17,134	43,459	67%	59%
LEWIS & CLARK	66,257	44,339	36,167	19,840	38,998	100,346	67%	59%
LIBERTY	2,234	850	714	433	813	1,997	38%	36%
LINCOLN	19,480	9,280	7,497	3,869	8,190	20,646	48%	42%
MADISON	8,589	4,334	3,430	1,943	3,860	9,707	50%	45%
MCCONE	1,562	444	413	226	422	1,083	28%	27%
MEAGHER	1,726	999	852	451	935	2,302	58%	54%
MINERAL	4,302	2,597	1,861	1,084	2,330	5,542	60%	54%
MISSOULA	115,881	83,490	69,166	37,068	75,132	189,724	72%	65%
MUSSELSHELL	4,458	1,687	1,364	663	1,559	3,714	38%	35%
PARK	15,969	11,025	8,531	4,594	9,446	24,150	69%	59%
PETROLEUM	483	159	140	82	149	381	33%	31%
PHILLIPS	3,675	1,872	1,434	841	1,741	4,147	51%	47%
PONDERA	5,389	3,501	2,697	1,361	3,068	7,559	65%	57%
POWDER RIVER	1,588	493	388	181	445	1,062	31%	28%
POWELL	6,534	4,150	3,078	1,647	3,866	8,875	64%	59%
PRAIRIE	994	457	406	222	428	1,085	46%	43%
RAVALLI	42,972	24,154	19,299	11,037	21,658	54,490	56%	50%
RICHLAND	10,310	4,353	3,424	1,682	4,100	9,459	42%	40%
ROOSEVELT	9,918	5,403	3,964	1,782	4,660	11,149	54%	47%
ROSEBUD	8,160	5,375	4,250	1,979	4,769	11,604	66%	58%
SANDERS	11,641	4,908	4,089	2,078	4,373	11,075	42%	38%
SHERIDAN	3,075	1,920	1,684	943	1,816	4,547	62%	59%
SILVER BOW	33,267	23,463	20,018	10,511	21,336	53,992	71%	64%
STILLWATER	9,451	4,284	3,381	1,933	3,931	9,598	45%	42%
SWEET GRASS	3,523	1,685	1,297	754	1,520	3,736	48%	43%
TETON	5,819	3,060	2,139	1,158	2,576	6,357	53%	44%
TOOLE	4,391	2,267	1,709	640	2,105	4,616	52%	48%
TREASURE	623	422	290	134	313	846	68%	50%
VALLEY	6,931	3,323	2,682	1,571	3,135	7,576	48%	45%
WHEATLAND	2,035	796	688	367	742	1,851	39%	36%
WIBAUX	898	348	288	119	296	755	39%	33%
YELLOWSTONE	153,378	90,560	74,949	36,064	81,111	201,573	59%	53%
<b>MONTANA</b>	<b>1,020,663</b>	<b>618,734</b>	<b>497,058</b>	<b>252,606</b>	<b>546,525</b>	<b>1,368,398</b>	<b>61%</b>	<b>54%</b>